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प्र. क्र.
Q.No.

Q.1 (A)

* choose the correct alternative.

i. Heating effect of electric current is not observed in

→ Fuse^{c)} electric motor

ii. which of the following is not a chemical change?

→ A) Digestion of food.

iii. Galvanometer is used to for detecting & measuring electric current.

iv. While heating ice & water mixture, it is stirred continuously.

→ to have uniform heating.

v. when aluminium metal reacts with dilute hydrochloric acid,

hydrogen gas is liberated.

Q.1 (B)

i.

→ rubber gloves

ii.

→ when the heat energy is absorbed at a constant

temperature by unit mass of solid transformation of

solid into liquid this is called as specific latent heat

of fusion.

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iii

→ Kinetic energy of a body of mass m on the surface of the earth: $\frac{1}{2} mv^2$ ∴ Kinetic energy of a body of mass m at infinitive distance from earth: 0.

iv.

column A	column B	column C
force - N mass	N	
mass - M/s^2	kg m/s^2	
weight - kg	m/s^2 kg	

v.

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Q2(A) Give scientific reasons.

i.

- elements in the
- • The capacity of the [^]third period are 8 elements.
 - even there electron capacity of the third shell is 18.
 - Because there in the first shell there are 2 electrons
 - Then in the second shell there are 8 electrons
 - Then in the 3 shell there are 8 electrons.
 - Like this it becomes complete 18 electrons in it.

iii.

1. In the winter season we can see the clear sky.
 → when the air is ~~saturated~~ ^{in winter} in atmosphere in the winter seasons it consists the clear sky.

2. That time we can observe a white trail at the back of the aeroplane flying in the sky.

3. Because there is not a clouds when sun shine brightly that's why we can see it.

4. ~~And the air is not saturated in the atmosphere~~
 In the summer seasons we cannot consist the clear sky.

5. Because in summer season there are clouds and sun shining very brightly in the sky. so that time we cannot see the white trail behind the aeroplane while flying in the sky.

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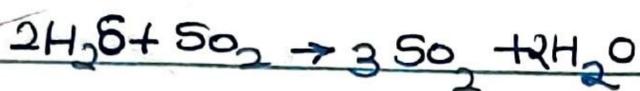
93.

i. Ca).

→ when oxidation & reduction take place simultaneously

Then this reaction is called as redox reaction.

One example of the redox reaction is:-



Hence this is called as redox reaction.

(b.) Fe is the oxidizing agent.

ii.

i. From the variation of temperature vs time, is depicted by plot (I) is 45 minutes.

ii

Z in the above graph denote that plot (I) & plot (II) are meet at 4°C temperature (anomalous behaviour of water.)

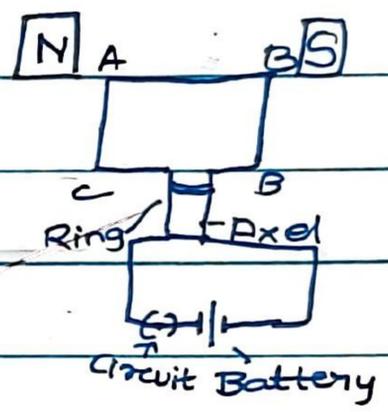
iii

4°C the temperature range, water displays anomalous behaviour at 4°C

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v.

- a) tungsten wires & copper wires used to carry electric supply in household circuits.
- b) N pole of the magnetic needle will move towards ~~xy~~ once current starts flowing through the circuit.
- c) working principle of electric generator is when current passes to circuit ^{point} _n of the circuit starts moving ^(N) anticlock wise and looks like an alphabet N & x point of it rotates & these is moves in clock wise direction & looks like and alphabet S. (S)



vi.

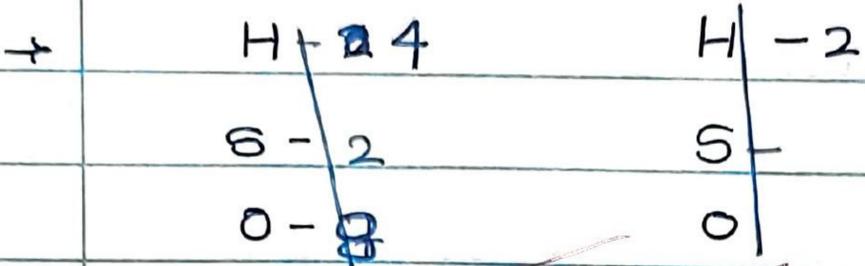
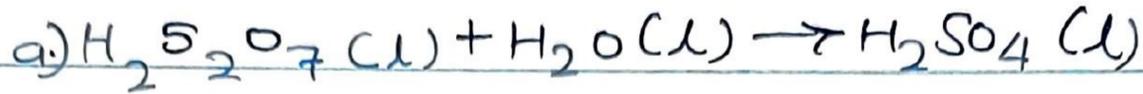
- i. A - magnesium B - Berium.
- ii. no elements of these belong to the same group.
- iii. Element A means magnesium which is more electropositive. Because it has ~~no~~ number of electrons.

vii.

Elements	Atomic No.	Electronic configuration	Type of ele.
Sodium	11	2, 8, 1	metal
Magnesium	12	2, 8, 2	metal
Aluminium	13	2, 8, 3	metal
Silicon	14	2, 8, 4	metalloid
phosphorus	15	2, 8, 5	metalloid
sulphur	16	2, 8, 6	Non-metal
chlorine	17	2, 8, 7	Nonmetal.

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Step I. to make the step we have to balance the equation.

Element	valency	Element	valency
H	4	H	2
S	2	S	1
O	8	O	4

Element	valency	Element	valency
H	4	H	2x4
S	2	S	1
O	8	O	4

Element	valency	Element	valency
H	4	H	4
S	2	S	2
O	8	O	8

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→ Here S is reducing agent & H_2 is oxidizing agent.



→ Here O is reducing agent & H_2 is an oxidizing agent.

Q.2.B.)

iii. a)

humid air

- It contains moisture.
- The atmosphere is hot & humid.

dry air

- It does not contain moisture.
- The atmosphere is ~~cold~~ not ~~& dry~~ hot.